

Krasnic, Bernard

From: brinkman [brinkman@merl.com]
Sent: Wednesday, September 17, 2008 10:49 AM
To: Krasnic, Bernard
Cc: brinkman@merl.com
Subject: 10/791,203 Re: Examiner Bernard Krasnic.

Dear Examiner Krasnic:

I have reviewed the FAX. Your proposed amendment has the appropriate claim language.

Thank you very much for assisting in moving this application forward to allowance.

Dirk Brinkman
Patent Counsel
Mitsubishi Electric Research Laboratory,

> Hello Mr. Dirk Brinkman,
>
> Instead of the fax, I attached a Doc file in this email as you
> suggested. It contains a proposed Examiner's Amendment. If you could
> just look over it and let me know if that claim language is
> appropriate for the Allowance that we had discussed.
>
> If you have any questions, just give me a call at my listed number below.
>
> Thank you for your help and time.
>
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Date: 9/17/2008 Pages: 5

Comments: In regards to Application 10/791,203.

DO NOT ENTER: This is only a PROPOSED AMENDMENT for interview summary purposes.

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The application has been PROPOSED to be amended as follows:

For the claims on pages 2-5 of the Applicant's Request For Continued Examination (RCE) dated 7/28/2008:

1. Please further amend claims 1, 7-9, 12-17 and 20 as shown below.

Claim 1: (currently amended) A method for processing a compressed input video, comprising:

decoding the compressed input video to produce pixels of an interlaced picture, the interlaced picture having a first spatial resolution, and a top-field and a bottom-field; producing, for each macroblock of pixels in the interlaced picture, a macroblock coding type, in which the macroblock coding type includes a macroblock motion type and a macroblock transform type;

filtering adaptively the top-field and the bottom-field of the interlaced picture according to the macroblock coding type and the macroblock transform type to produce a progressive picture with a second spatial resolution less than the first spatial resolution, in which the filtering jointly performs de-interlacing and downsampling of the interlaced picture;

wherein, the filtering includes frame-based filtering and field-based filtering, in which the filtering is frame-based when the macroblock coding type is inter-coding and

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the macroblock motion type is frame-based, and an absolute value of motion vectors corresponding to the macroblock are greater than a threshold; and encoding the progressive picture.

Claim 7: (cancelled)

Claim 8: (currently amended) The method of ~~claim 7~~ claim 1, in which the filtering is field-based when the macroblock coding type is inter-coding and the macroblock motion type is field-based.

Claim 9: (currently amended) The method of ~~claim 7~~ claim 1, in which the filtering is field-based when the macroblock coding type is inter-coding, the macroblock motion type is frame-based, and an absolute value of motion vectors corresponding to the macroblock are less than or equal to a threshold.

Claim 12: (currently amended) The method of ~~claim 7~~ claim 1, in which the filtering is field-based when the macroblock coding type is intra-coding and the macroblock transform type is field-based.

Claim 13: (currently amended) The method of ~~claim 7~~ claim 1, in which the filtering is frame-based when the macroblock coding type is intra-coding and the macroblock transform type is frame-based.

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Claim 14: (cancelled)

Claim 15: (currently amended) The method of ~~claim 7~~ claim 1, in which the filtering is frame-based and operates on input samples from the top-field and bottom-field of the interlaced picture.

Claim 16: (currently amended) The method of ~~claim 7~~ claim 1, in which the filtering is field-based and operates on input samples from the top-field or bottom-field.

Claim 17: (currently amended) The method of ~~claim 7~~ claim 1, in which the filtering is field-based and operates on input samples from the bottom-field.

Claim 20: (currently amended) A system for processing a compressed input video, comprising:

means for decoding the compressed input video to produce pixels of an interlaced picture, and producing, for pixels of each macroblock, a macroblock coding type, in which the macroblock coding type includes a macroblock motion type and a macroblock transform type, the interlaced picture having a first spatial resolution, and a top-field and a bottom-field;

means for filtering adaptively the top-field and the bottom-field of the interlaced picture according to the macroblock coding type and the macroblock transform type to produce a progressive picture with a second spatial resolution less than the first spatial resolution, in which the filtering jointly performs de-interlacing and downsampling of the

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interlaced picture; and picture, wherein, the filtering includes frame-based filtering and field-based filtering, in which the filtering is frame-based when the macroblock coding type is inter-coding and the macroblock motion type is frame-based, and an absolute value of motion vectors corresponding to the macroblock are greater than a threshold;
and

an encoder configured to compress the progressive picture.